

# DUNE Near Detector Coordination

*Sanjib R. Mishra*

*Weekly Meeting*

*21.Aug.2015*

*....just getting started*

**Charge:** Build the 'best' ND for 40t LAr DUNE in a 2.3 MW beam

*Systematics to oscillation*

*Precision measurements*

*Searches*

**How:** Project and Physics teams working together

*ND .vs. FD*

*Scale & Time is different*

*on ND rests the Systematics & the precision measurement & searches*

**Who:** Project with working-groups (WGs)

*Systematics to oscillation*

*Precision measurements*

*Searches*

ND-Coordinator (SRM) with ND-Project-Manager (TBD) working with the project office (Eric James) and the collaboration.

### Three Detector oriented groups:

(1) **Fine Grained Tracker (FGT):** Reference detector (CDR, and Reviews)

⇒ *Optimization: Nuclear Targets (Ar, Ca, C, etc.)*

⇒ *ECAL*

⇒ *Physics ⇔ Detector related studies*

(2) **Liquid Argon (LAr) Option:** Augment or replace the FGT design

(3) **High Pressure Ar-Gas (HP-ArGas) Option:**

⇒ **Detector-Physics Group:** *A very large overlap* with the **ND-Physics Group**

Collaborative consultation with the Task-Force (TF): *members from ND will work with the TF. Thinking about the modus operandi to help the TF meet its ambitious and time-sensitive charges.*

At the Sep/15 Collaboration meeting:

Near Detector WG: 3.Sep.15 (Th), 10:30—12:00PM

Location: Curia II (WH2 SW)

Plenary session: 5.Sep.15 (Sat), 11—12:30PM

Location: One West